

## **I CLAIM**

1. A self-telescoping storage enclosure, comprising:

a first tray, including a base wall, and a single contiguous sidewall extending up from the base wall, the single contiguous sidewall including a major wall and a minor wall opposite the major wall, and a right wall and a left wall opposite the right wall, wherein the major wall and the minor wall each have an outer surface;

a left notch disposed in the left wall and a right notch disposed in the right wall;

the outer surface of the major wall defining a first major outer width, and the outer surface of the minor wall defining a first minor outer width, the first major outer width being greater than the first minor outer width; and

wherein the first tray can nest with a second tray that is substantially similar to the first tray and that is inverted and oriented 180° relative to the first tray by the inter-engagement of their respective notches.

2. The storage enclosure of claim 1, wherein the left wall and the right wall each further have a thickness, wherein the outer major width is greater than or equal to the outer minor width plus the thickness of the left wall plus the thickness of the right wall.

3. The storage enclosure of claim 1, wherein the bottom wall is a trapezoid.

4. The storage enclosure of claim 1, wherein the right wall defines a right outer surface, and the left wall defines a left outer surface, and each of the right outer surface and the left outer surface has a first length.

5. The storage enclosure of claim 4, wherein the right notch is disposed in the right wall approximately midway along the first length.

6. The storage enclosure of claim 1, wherein the right wall defines a first height, and wherein the depth of the right notch is approximately one half of the first height.

7. The storage enclosure of claim 1, wherein the major wall defines a first height and the minor wall defines a second height, wherein the first height does not equal the second height.

8. The storage enclosure of claim 7, wherein the first height is greater than the second height.

9. The storage enclosure of claim 1, wherein the left wall and the right wall extend substantially perpendicularly from the major wall and the minor wall.

10. The storage enclosure of claim 9, wherein the left wall angles inward in the area of the left notch, and the right wall angles inward in the area the right notch.

11. A self-telescoping storage enclosure, comprising:

a first tray including a first base wall and a first contiguous sidewall extending up from the first base wall, the first contiguous sidewall including a first major wall, a first minor wall opposite the first major wall, a first right wall and a first left wall opposite the first right wall, the first left wall and the first right wall each including a notch;

the first major wall having a first outer surface that defines a first major outer width and the first minor wall having a first outer surface that defines a first minor outer width, the first major outer width being longer than the first minor outer width;

a second tray including a second base wall and a second contiguous sidewall extending up from the second base wall, the second contiguous sidewall including a second major wall, a second minor wall opposite the second major wall, a second right wall and a second left wall opposite the second right wall, the second left wall and the second right wall each including a notch;

the second major wall having a second outer surface that defines a second major outer width and the second minor wall having a second outer surface that defines a second minor outer width, the second major outer width being longer than the second minor outer width; and

wherein the second tray is disposed on the first tray such that the second minor wall is inside the first major wall, and the first minor wall is inside the second major wall.

12. The storage enclosure of claim 11, wherein the notch on the left wall is disposed approximately midway along the length of the left wall and the notch of the right wall is disposed approximately midway along the length of the right wall.

13. The storage enclosure of claim 11, wherein the first major wall defines a first height, and the first minor wall defines a second height, wherein the first height is greater than the second height.

14. The storage enclosure of claim 13, wherein the second major wall has a height equal to the first height, and the second minor wall has a height equal to the second height.

15. The storage enclosure of claim 11, wherein the notches of the first tray inter-engage the notches of the second tray.

16. A method of assembling a self-telescoping storage enclosure, the enclosure including a first tray with a base wall and a contiguous sidewall extending up from the base wall, the contiguous sidewall including a major wall, a minor wall opposite the major wall, and two opposed sidewalls, the major wall being longer than the minor wall, the two sidewalls each including a notch disposed approximately midway along their respective lengths, the enclosure further comprising a second tray substantially identical to the first tray, the method comprising:

inverting and orienting the second tray 180° relative to the first tray; and

disposing the first tray on the second tray, the major wall of the first tray being disposed outside the minor wall of the second tray, the major wall of the second tray being disposed outside the minor wall of the first tray.

17. The method of claim 16, the method further including inter-engaging the notches of the first tray on the notches of the second tray.